



JANAKI R. POLANI, P.E.

SUMMARY

Thirty years in vessels, exchangers, tanks, spheres, bins, LNG storage tanks, stacks, etc. with various E&C companies. The process plants worked included refineries, LNG plants, ammonia, urea, ethylene, MTBE, Phenol, aromatics, coal gasification, sulfuric acid and others. Functioned as Consultant, Principal Engineer and Lead Engineer.

PROFESSIONAL EXPERIENCE

Monroe Township, New Jersey

Principal Engineer – Responsible for vessels, and tanks for the following projects:

- 453,500 metric tons/year Ethylene Plant - Westlake Chemicals, Lake Charles, Louisiana

Principal Engineer – Responsible for:

- Ryazan Fluid Catalyst Cracker Unit Modernization Project -Tyumen Oil Company, Russia
- Herbicide Project – Monsanto Company, Brazil

Lead Engineer – Responsible for:

- A refinery proposal for NKNK
- 760,000 metric tons/year Ethylene Plant Yanbu, Saudi Arabia
- 520,000 metric tons/year Ethylene Project Rio Polimeros, Brazil

Bechtel Houston, Texas

1991 - 1995

Lead Mechanical Engineer -Responsible for vessels, exchangers and furnaces for the following projects:

- Yukon Pacific LNG Project Phase I, Alaska
- In addition to data sheets, standards and specifications, a detailed LNG tank study was carried out, a recommendation on tank type was made after performing a cost and a safety analysis.
- 11,000 BPSD Aromatics Project to produce pure Benzene, using Chevron's Aromax and GKTs solvent extraction process at Pascagoula, Mississippi.
- 500,000 TPA MTBE Project for Mobil-ARANCHEM Phase I plant that utilized ISOM unit of UOP, Catofin unit of Lummus and MTBE unit of Snamprogetti.
- Worked as an Equipment Coordinator on a Proposal for a Coal Gasification based power plant in Tampa, Florida.
- Worked on Kennecott Coal Upgrade Project that involved large (up to 55' diameter.) fluidized bed vessels with internal cyclones, distributors and massive cooling and heating coils, operating under pressure and partial vacuum at high temperatures. The vessels were refractory lined.
- Worked on Union Carbide Projects, Butanol, EPR-1 and polyethylene project. Worked on various projects from UCC-Bechtel Alliance.

M.W. Kellogg Company
Houston, Texas

1974 - 1991

Principal Engineer – on several project as Lead Vessel and Exchanger Engineer. Typical of these are LDPE plants for UCC, FCCU for Shell, Amoco and Phillips. Ethylene projects for Exxon, Chinese Petroleum and Hyundai Company, a Butadiene unit for Exxon, a 46,000 BPSD major refinery expansion involving 10 units for Saber Energy Company. Malaysian LNG, Dome LNG, Woodside LNG, Trunk-line LNG Terminal, NH3 and Urea complexes. A Plestra (fat substitute) plant for Proctor and Gamble, Bisphenol for Shell, a coal gasification project for Shell and others. Provided consultancy services to Zeebrugge LNG terminal in Belgium and Hyundai Engineering Company in Seoul, Korea (1989-1990). Also worked in Yokohama (Japan) in JGC offices as Co-Lead Equipment Engineer on Woodside LNG for Australia (1984-1987).

Monsato Enviro-Chem
Chicago, Illinois

1973 - 1974

Engineer – Sulfuric Acid Plants. Responsible for all vessels, exchangers, stacks, tanks and ducts. Materials included FRP.

Austin Company, Process Division
Chicago, Illinois

1972 - 1973

Vessels Engineer – Responsible for the work on TDI plant for BASF-Wyandotte.

Gatx Plate and Welding Division
Chicago, Illinois

1970 - 1972

Engineer – Designed and detailed API 650, API 620 and AWWA D 100 tanks.

Heavy Engineering Corporation
India

1963 - 1970

Manufacturing Engineer – Worked in machine and fabrication shops as a “methods and tools” engineer.

EDUCATION

MSME IIT, Kharagpur, India
BSME, Andhra University, India

PROFESSIONAL ASSOCIATION

Registered Professional Engineer, Illinois, Texas and Mississippi

PAPERS

Presented an ASME paper on “Bi-Axial Compressive Stresses in Vessels” in co-authorship with N. Gilbert



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